

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/07/02
Date Received: 02/28/02
Project: Metro K.C. Grab, PO# M67579
Date Extracted: 03/01/02
Date Analyzed: 03/01/02

**RESULTS FROM THE ANALYSIS OF WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M67579 202202-01	0.24	0.28	0.26	0.08
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 202202-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.24	0.21	13	0-20
Copper	mg/L (ppm)	0.28	0.24	15	0-20
Nickel	mg/L (ppm)	0.26	0.20	26 a	0-20
Zinc	mg/L (ppm)	0.08	0.07	13	0-20

Laboratory Code: 202202-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	0.24	96	96	80-120	0
Copper	mg/L (ppm)	2	0.28	96	95	80-120	1
Nickel	mg/L (ppm)	4	0.26	92	93	80-120	1
Zinc	mg/L (ppm)	2	0.08	99	98	80-120	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	106	108	80-120	2
Copper	mg/L (ppm)	2	105	108	80-120	3
Nickel	mg/L (ppm)	4	103	103	80-120	0
Zinc	mg/L (ppm)	2	105	106	80-120	1

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

March 7, 2002

DUPLICATE COPY

INVOICE #02ACU0307-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro K.C. Grab, PO# M67579 - Results of testing requested by Gerry Thompson for material submitted on February 28, 2002.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
Amount Due	\$ 80.00

FEDERAL TAX ID #(b) (6)

202202

SAMPLE CHAIN OF CUSTODY

ME 2.28-02 AI5

Send Report To ~~Alaska~~ Gerson Thompson
 Company Alaskan Copper Work
 Address 628 S. Harvard
 City, State, ZIP SEATTLE WA 98134
 Phone # 206-382-8579 Fax # 206-382-4308

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>Metro K.C. Grab</u>	PO # <u>M67579</u>
REMARKS <u>24-hr TURN-Around</u>	

Page # _____ of _____
TURNAROUND TIME <input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	OC	OC	OC	OC	
M67579	01	2/28/02	1030	H2O	1											

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Gerson A. Thompson</u>	<u>ACW</u>	<u>2/28/02</u>	<u>12:52</u>
Received by: <u>[Signature]</u>	<u>Nathan E. Edick</u>	<u>PERAC</u>	<u>L</u>	<u>L</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

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March 7, 2002

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

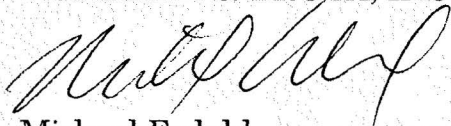
Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 28, 2002 from your Metro K.C. Grab, PO# M67579 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0307R.DOC

FROM :

FAX NO. : 2062835044

Mar. 01 2002 11:37AM P2

Date Extracted: 03/01/02

Date Analyzed: 03/01/02

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

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Method Blank	<0.05	<0.05	<0.05	<0.05

DRAFT

Metro
Gresh

AKC-000936